

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REISSUE APPLICATION OF:
Richard Alan Haase

PATENT NO: 5,846,435
*Also Re-exam 90/005,710

FILED: December 8, 1998

TITLE: Method for Dewatering of Sludge

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§ GROUP ART NO.: UNKNOWN
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§ EXAMINER: UNKNOWN
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AMENDMENT PAPER

The Honorable Commissioner
of Patents & Trademarks
Box: Reissue Patent Application
Washington, D.C. 20231

Sir:

Please amend the claims as follows:

1. (Amended) A method for dewatering biological sludge that has been digested by a thermophilic digestion process comprising:

adding at least one polymeric quaternary ammonium compound[s], as primary component, to the biological sludge; and

adding polyacrylamide to the biological sludge;

such that any combination[s] of the polymeric quaternary ammonium compound[s] and of the polyacrylamide[s] enhances dewatering of the sludge.

2. (Amended) The method for dewatering biological sludge according to claim 1, wherein the polymeric quaternary ammonium compound[s are] is from di-allyl di-methyl ammonium chloride (DADMAC) family.

3. (Amended) The method for dewatering biological sludge according to claim 1, wherein the polymeric quaternary ammonium compound[s are] is from epichlorohydrin di-methyl amine (epi-DMA) family.

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92 15. (Amended) A composition for dewatering biological sludge according to claim 1 comprising at least one polymeric quaternary ammonium compound[s], as primary component, and polyacrylamide, said components being present in the composition in a ratio to enable the composition to function as an agent for dewatering biological sludge from a thermophilic digestion process.

93 17. (New) The method for dewatering biological sludge according to claim 1, wherein a polymeric quaternary ammonium compound has a molecular weight from about 500,000 to 3,000,000 and is cationic and wherein the polyacrylamide has a molecular weight from about 5,000,000 to about 16,000,000.

18. (New) The method for dewatering biological sludge according to claim 15, wherein a polymeric quaternary ammonium compound has a molecular weight from about 500,000 to 3,000,000 and is cationic and wherein the polyacrylamide has a molecular weight from about 5,000,000 to about 16,000,000.

19. (New) The method of claim 15 wherein the polyacrylamide is cationic or anionic.

Status of Claims and Support for Claim Changes

Nineteen (19) claims are pending. Support for dependent claims 17 and 18 are found on page 8, column 6, lines 20-25, among other places. Support for the amended claims 1, 2, 3 and 15 is found in the examples in columns 7-9. Support for claim 19 is found in claims 4 and 8, among other places.

Respectfully submitted,



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